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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/913,955A

DATE: 05/16/2003  
TIME: 09:34:57

Input Set : A:\16335.app  
Output Set: N:\CRF4\05162003\I913955A.raw

3 <110> APPLICANT: CRINE, PHILIPPE  
4 BOILEAU, GUY  
6 <120> TITLE OF INVENTION: COMPOSITION, METHODS AND REAGENTS FOR THE SYNTHESIS OF  
7 A SOLUBLE FORM OF HUMAN PHEX  
9 <130> FILE REFERENCE: 163-35  
11 <140> CURRENT APPLICATION NUMBER: 09/913,955A  
12 <141> CURRENT FILING DATE: 2001-08-21  
14 <150> PRIOR APPLICATION NUMBER: PCT/CA00/00201  
15 <151> PRIOR FILING DATE: 2000-02-24  
17 <150> PRIOR APPLICATION NUMBER: CA 2,262,056  
18 <151> PRIOR FILING DATE: 1999-02-24  
20 <160> NUMBER OF SEQ ID NOS: 6  
22 <170> SOFTWARE: PatentIn Ver. 2.1  
24 <210> SEQ ID NO: 1  
25 <211> LENGTH: 749  
26 <212> TYPE: PRT  
27 <213> ORGANISM: Homo sapiens  
29 <400> SEQUENCE: 1  
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31 1 5 10 15  
33 Arg Gly Thr Arg Ile Ala Leu Val Val Phe Val Gly Gly Thr Leu Val  
34 20 25 30  
36 Leu Gly Thr Ile Leu Phe Leu Val Ser Gln Gly Leu Leu Ser Leu Gln  
37 35 40 45  
39 Ala Lys Gln Glu Tyr Cys Leu Lys Pro Glu Cys Ile Glu Ala Ala Ala  
40 50 55 60  
42 Ala Ile Leu Ser Lys Val Asn Leu Ser Val Asp Pro Cys Asp Asn Phe  
43 65 70 75 80  
45 Phe Arg Phe Ala Cys Asp Gly Trp Ile Ser Asn Asn Pro Ile Pro Glu  
46 85 90 95  
48 Asp Met Pro Ser Tyr Gly Val Tyr Pro Trp Leu Arg His Asn Val Asp  
49 100 105 110  
51 Leu Lys Leu Lys Glu Leu Leu Glu Lys Ser Ile Ser Arg Arg Arg Asp  
52 115 120 125  
54 Thr Glu Ala Ile Gln Lys Ala Lys Ile Leu Tyr Ser Ser Cys Met Asn  
55 130 135 140  
57 Glu Lys Ala Ile Glu Lys Ala Asp Ala Lys Pro Leu Leu His Ile Leu  
58 145 150 155 160  
60 Arg His Ser Pro Phe Arg Trp Pro Val Leu Glu Ser Asn Ile Gly Pro  
61 165 170 175  
63 Glu Gly Val Trp Ser Glu Arg Lys Phe Ser Leu Leu Gln Thr Leu Ala  
64 180 185 190  
66 Thr Phe Arg Gly Gln Tyr Ser Asn Ser Val Phe Ile Arg Leu Tyr Val

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67	195	200	205
69	Ser Pro Asp Asp Lys Ala Ser Asn Glu His Ile Leu Lys Leu Asp Gln		
70	210	215	220
72	Ala Thr Leu Ser Leu Ala Val Arg Glu Asp Tyr Leu Asp Asn Ser Thr		240
73	225	230	235
75	Glu Ala Lys Ser Tyr Arg Asp Ala Leu Tyr Lys Phe Met Val Asp Thr		255
76	245	250	
78	Ala Val Leu Leu Gly Ala Asn Ser Ser Arg Ala Glu His Asp Met Lys		270
79	260	265	
81	Ser Val Leu Arg Leu Glu Ile Lys Ile Ala Glu Ile Met Ile Pro His		285
82	275	280	
84	Glu Asn Arg Thr Ser Glu Ala Met Tyr Asn Lys Met Asn Ile Ser Glu		300
85	290	295	
87	Leu Ser Ala Met Ile Pro Gln Phe Asp Trp Leu Gly Tyr Ile Lys Lys		320
88	305	310	315
90	Val Ile Asp Thr Arg Leu Tyr Pro His Leu Lys Asp Ile Ser Pro Ser		335
91	325	330	
93	Glu Asn Val Val Val Arg Val Pro Gln Tyr Phe Lys Asp Leu Phe Arg		350
94	340	345	
96	Ile Leu Gly Ser Glu Arg Lys Lys Thr Ile Ala Asn Tyr Leu Val Trp		365
97	355	360	
99	Arg Met Val Tyr Ser Arg Ile Pro Asn Leu Ser Arg Arg Phe Gln Tyr		380
100	370	375	
102	Arg Trp Leu Glu Phe Ser Arg Val Ile Gln Gly Thr Thr Leu Leu		400
103	385	390	395
105	Pro Gln Trp Asp Lys Cys Val Asn Phe Ile Glu Ser Ala Leu Pro Tyr		415
106	405	410	
108	Val Val Gly Lys Met Phe Val Asp Val Tyr Phe Gln Glu Asp Lys Lys		430
109	420	425	
111	Glu Met Met Glu Glu Leu Val Glu Gly Val Arg Trp Ala Phe Ile Asp		445
112	435	440	
114	Met Leu Glu Lys Glu Asn Glu Trp Met Asp Ala Gly Thr Lys Arg Lys		460
115	450	455	
117	Ala Lys Glu Lys Ala Arg Ala Val Leu Ala Lys Val Gly Tyr Pro Glu		480
118	465	470	475
120	Phe Ile Met Asn Asp Thr His Val Asn Glu Asp Leu Lys Ala Ile Lys		495
121	485	490	
123	Phe Ser Glu Ala Asp Tyr Phe Gly Asn Val Leu Gln Thr Arg Lys Tyr		510
124	500	505	
126	Leu Ala Gln Ser Asp Phe Phe Trp Leu Arg Lys Ala Val Pro Lys Thr		525
127	515	520	
129	Glu Trp Phe Thr Asn Pro Thr Thr Val Asn Ala Phe Tyr Ser Ala Ser		540
130	530	535	
132	Thr Asn Gln Ile Arg Phe Pro Ala Gly Glu Leu Gln Lys Pro Phe Phe		560
133	545	550	555
135	Trp Gly Thr Glu Tyr Pro Arg Ser Leu Ser Tyr Gly Ala Ile Gly Val		575
136	565	570	
138	Ile Val Gly His Glu Phe Thr His Gly Phe Asp Asn Asn Gly Arg Lys		590
139	580	585	

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141 Tyr Asp Lys Asn Gly Asn Leu Asp Pro Trp Trp Ser Thr Glu Ser Glu  
142 595 600 605  
144 Glu Lys Phe Lys Glu Lys Thr Lys Cys Met Ile Asn Gln Tyr Ser Asn  
145 610 615 620  
147 Tyr Tyr Trp Lys Lys Ala Gly Leu Asn Val Lys Gly Lys Arg Thr Leu  
148 625 630 635 640  
150 Gly Glu Asn Ile Ala Asp Asn Gly Gly Leu Arg Glu Ala Phe Arg Ala  
151 645 650 655  
153 Tyr Arg Lys Trp Ile Asn Asp Arg Arg Gln Gly Leu Glu Glu Pro Leu  
154 660 665 670  
156 Leu Pro Gly Ile Thr Phe Thr Asn Asn Gln Leu Phe Phe Leu Ser Tyr  
157 675 680 685  
159 Ala His Val Arg Cys Asn Ser Tyr Arg Pro Glu Ala Ala Arg Glu Gln  
160 690 695 700  
162 Val Gln Ile Gly Ala His Ser Pro Pro Gln Phe Arg Val Asn Gly Ala  
163 705 710 715 720  
165 Ile Ser Asn Ser Glu Glu Phe Gln Lys Ala Phe Asn Cys Pro Pro Asn  
166 725 730 735  
168 Ser Thr Met Asn Arg Gly Met Asp Ser Cys Arg Leu Trp  
169 740 745  
172 <210> SEQ ID NO: 2  
173 <211> LENGTH: 20  
174 <212> TYPE: PRT  
175 <213> ORGANISM: Homo sapiens  
177 <400> SEQUENCE: 2  
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179 1 5 10 15  
181 Gly Leu Leu Ser  
182 20  
185 <210> SEQ ID NO: 3  
186 <211> LENGTH: 20  
187 <212> TYPE: PRT  
188 <213> ORGANISM: Artificial Sequence  
190 <220> FEATURE:  
191 <223> OTHER INFORMATION: Description of Artificial Sequence: Human PHEX  
192 derivative  
194 <400> SEQUENCE: 3  
195 Val Leu Thr Val Ile Ala Gln Gln Thr Thr Leu Phe Leu Val Ser Gln  
196 1 5 10 15  
198 Gly Leu Leu Ser  
199 20  
202 <210> SEQ ID NO: 4  
203 <211> LENGTH: 16  
204 <212> TYPE: PRT  
205 <213> ORGANISM: Artificial Sequence  
207 <220> FEATURE:  
208 <223> OTHER INFORMATION: Description of Artificial Sequence: Human PHEX  
209 derivative  
211 <400> SEQUENCE: 4

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212 Val Leu Thr Val Ile Ala Gln Gln Thr Thr Ser Gln Gly Leu Leu Ser  
213 1 5 10 15  
216 <210> SEQ ID NO: 5  
217 <211> LENGTH: 52  
218 <212> TYPE: DNA  
219 <213> ORGANISM: Artificial Sequence  
221 <220> FEATURE:  
222 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer  
224 <400> SEQUENCE: 5  
225 ctgacagtga tcgctcaaca aacaaccagt caaggtctct taagtctcca ag 52  
228 <210> SEQ ID NO: 6  
229 <211> LENGTH: 51  
230 <212> TYPE: DNA  
231 <213> ORGANISM: Artificial Sequence  
233 <220> FEATURE:  
234 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer  
236 <400> SEQUENCE: 6  
237 ggttgttgt tgagcgatca ctgtcaggac aaacacgacc agggcaattc g 51

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/913,955A

DATE: 05/16/2003

TIME: 09:34:58

Input Set : A:\16335.app

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